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Information for Authors

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Specific topics include, but are not limited to: a) artificial intelligence techniques, including speech, voice, graphics, images, and documents; b) knowledge and data engineering tools and techniques; c) parallel and distributed processing; d) real-time distributed processing; e) system architectures, integration, and modeling; f) database design, modeling, and management; g) query design and implementation languages; h) distributed database control; i) statistical databases; j) algorithms for data and knowledge management; k) performance evaluation of algorithms and systems; l) data communications aspects; m) system applications and experience; n) knowledge-based and expert systems; and o) integrity, security, and fault tolerance. For a list of current areas published in TKDE, refer to the Editorial in the February 1994 issue.

Papers that may be submitted for consideration include those that have not previously been published in another journal, or are not currently being published or reviewed by another journal or conference, as well as those that have been published in Conference Proceedings, Digests, and Records and that have undergone substantial revision. The author is responsible for obtaining all necessary copyright releases for copyrighted material which has appeared in non-IEEE publications. It is the IEEE's policy (policy 6.16) to assume that all clearances have been received by the author by the time a paper is submitted for publication.

Papers are published in this TRANSACTIONS as REGULAR PAPER, or CONCISE PAPER, or CORRESPONDENCE. In a REGULAR PAPER, the title, abstract, introduction, and summary should be sufficiently informative to make the contributions of the paper clear to the broadest possible audience, and to place them in context with related work. A CONCISE PAPER presents results that are important and original and are presented in a concise form. A CORRESPONDENCE is used to convey only a few principal ideas or to comment on previous work published in this TRANSACTIONS. As part of REGULAR PAPERS, we solicit RESEARCH SURVEYS that present new taxonomies, research issues, and current directions on a specific topic in the knowledge and data engineering areas. Each should have an extensive bibliography that is useful for experts working in the area and should not be tutorial in nature. As part of CORRESPONDENCES, we solicit CORRESPONDENCES ON RECENT DEVELOPMENTS that describe recent results, prototypes, and new developments whose timely publication is important. Each article is restricted to three double-spaced pages and will be published in the next available issue if accepted. For size requirements, see B-1 below.

Delays can be minimized by preparing the manuscript according to the following suggestions.

A. Process for Submission of a Technical Paper and/or Proposal of a Special Issue

1) For invited papers, six copies, complete with illustrations, abstract, and index terms, should be sent to the Editor-in-Chief.

2) Proposals for special issues should initially be discussed informally with the Editor-in-Chief. After positive feedback, a proposal which includes the following components should be submitted: a) aim; b) audience, or who will benefit; c) topics covered; d) possible authors and titles; e) possible reviewers for submitted papers; f) target date for submission of papers; g) vitae for parties proposing the issue. The proposal should be prepared on a special form available from the Editor-in-Chief or by anonymous ftp from manip.crhc.uiuc.edu (128.174.197.211) in directory /pub/tkde. All proposals will be reviewed by members of the TRANSACTIONS Editorial and Advisory Boards.

3) For papers to be considered for regular issues, six copies of the manuscript, each complete with illustrations, abstract, and index terms, should be sent to the Editor-in-Chief.

4) Enclose a signed IEEE copyright transfer form with each manuscript.

5) Enclose with each manuscript, on a separate page, from five to ten index terms (key phrases). These terms should be relatively independent (coordinate index terms), and as a group should optimally characterize the paper.

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1) Typewrite, and double space; use one side of sheet only. (Good office-duplicated copies are acceptable.) Papers should be printed using fonts of 10 points or larger and spacing of 18 points or larger. Typical length of regular papers should be 25–30 double-spaced pages, including figures, tables, and references; that of concise papers is 12 pages, and that of correspondence items is 4 pages.

2) Provide an informative 100-to-250 word abstract and index terms in alphabetical order at the head of the manuscript. A concise paper requires an abstract of 100 to 150 words, and a correspondence requires 50 words or less. The abstracts are printed with the articles.

3) Provide a separate double-spaced sheet listing all footnotes, beginning with "Affiliation of author" and continuing with numbered references. Acknowledgment of financial support may be given, if appropriate. Include your electronic-mail address if available.

4) References should be numbered and appear in a separate bibliography at the end of the paper. Use numerals in square brackets to cite references, e.g., [5]. References should be complete, in IEEE style, and in general should be accessible to our readers.

Style for papers: Author, first initials followed by last name, title, volume, page numbers, month and year.

Style for books: Author, title, publisher and location, year, chapter or page numbers (if desired).

(See this issue for further examples.)

5) Provide a separate sheet listing all figure captions, in proper style for the typesetter, e.g., "Fig. 1. Example of a disjoint and distraught manifold."

6) Provide electronic media before final publication. This is mandatory as it helps speed the production process, insures greater accuracy, and builds an electronic abstract and index base. To complete the production and final printing of your paper, the Transactions Department will need to receive your final manuscript in the format described below.

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C. Style for Illustrations

1) Originals for illustrations (including tables) should be sharp, noise-free, and of good contrast. We regret that we cannot provide drafting or art services.

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3) On graphs, show only the coordinate axes, or at most the major grid lines, to avoid a dense, hard-to-read result.

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5) Photographs should be glossy prints, of good contrast and gradation, and any reasonable size.

6) Number each original on the back, or at the bottom of the front.

7) Note item B-5 above. Captions lettered on figures will be blocked out in reproduction in favor of typeset captions.

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